

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-636 REV. K
AND INSTRUCTIONS FOR CONTINUING AIRWORTHINESS ICA-D350-636 REV. 4
OR LATER APPROVED REVISION

REF. FAA STC: SR00646SE
REF. TCCA STC: SH99-7
REF. EASA STC: 10033942
REF. BRAZIL STC: 2009S05-01

1.0 PURPOSE

The purpose of this Service Instruction is to introduce the D350-636-311/-312/-313/-314/-315/-316/-317/-318 Skidtube Installations.

The D350-636-311/-312/-313/-314 Skidtube assemblies consist of the D350-636-011/-012/-013/-014 Skidtubes with D350-636-111 Glacier Wearplate Kits factory installed per Figures 1 and 2. The D350-636-315/-316/-317/-318 Skidtube assemblies consist of the D350-636-015/-016/-017/-018 Skidtubes with D350-636-113 Thru Bolt Glacier Wearplate Kits factory installed per Figures 3 and 4.

Configurations of the D350-636-311/-312/-313/-314/-315/-316/-317/-318 Skidtubes are defined in the Parts Lists of Section 3.0.

2.0 INSTALLATION AND MAINTENANCE

Install and maintain the D350-636-311/-312/-313/-314/-315/-316/-317/-318 Skidtubes per IIN-D350-636 and per ICA-D350-636 using the sections applicable to the D350-636-011/-012/-013/-014/-015/-016/-017/-018 Skidtubes and D350-636-111/-113 Wearplate Kits as appropriate.

Update aircraft logbook to indicate installation of the new Skidtubes. Update aircraft Weight and Balance with the data provided in Section 4.0.

APPROVED

C	REMOVED D350-636-111/-113 (INCORPORATED INTO IIN-D350-636 AND ICA-D350-636); ADDED D350-636-311/-312/-313/-314/-315/-316/-317/-318	MW	18.04.04
B	ADD D350-636-113 WEARPLATE KIT	DB	14.08.21
A	NEW ISSUE	DB	13.09.11
REV.	DESCRIPTION	BY	DATE
DESIGN	DB	DART AEROSPACE USA, INC. EUGENE, OR	
DRAWN	MW		
CHECKED	NO	DRAWING NO.	REV. C
MFG. APPR.	N/A	WEARPLATE INSTALLATION SHEET 1 OF 4	
APPROVED	NO	TITLE	SCALE
DE APPR.	DS	DSI 9662	NTS
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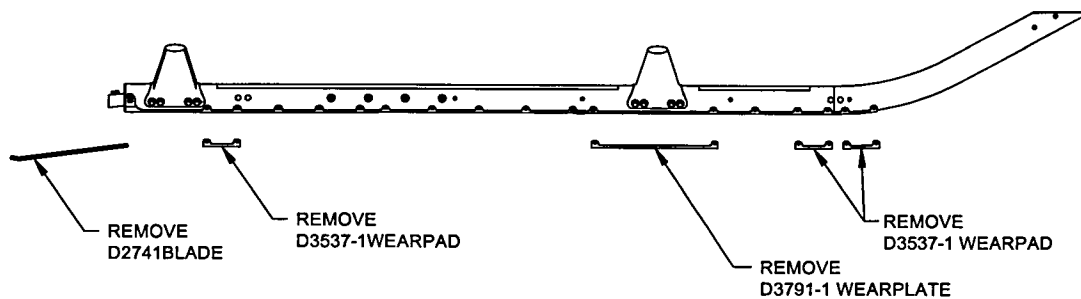


FIGURE 1: D350-636-011/-012/-013/-014 BLADE/WEARPLATE REMOVAL

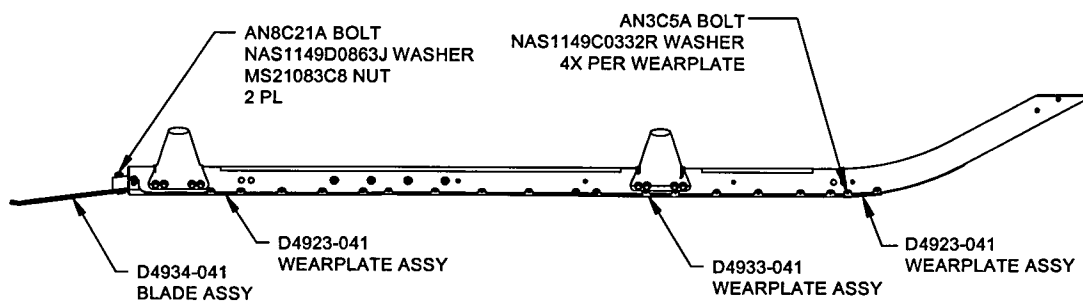


FIGURE 2: D350-636-311/-312/-313/-314 BLADE/WEARPLATE INSTALLATION

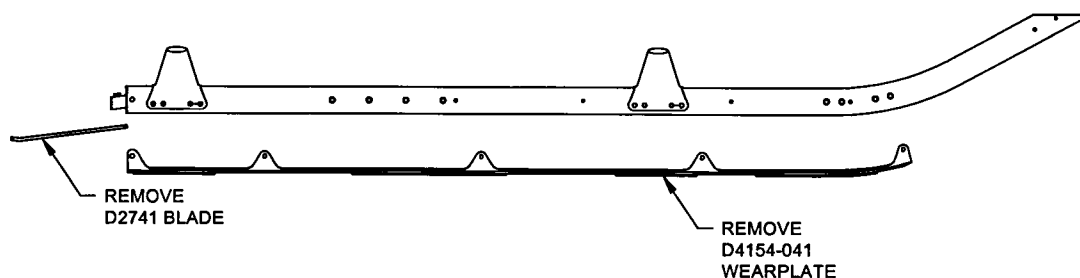


FIGURE 3: D350-636-015/-016/-017/-018 BLADE/WEARPLATE REMOVAL

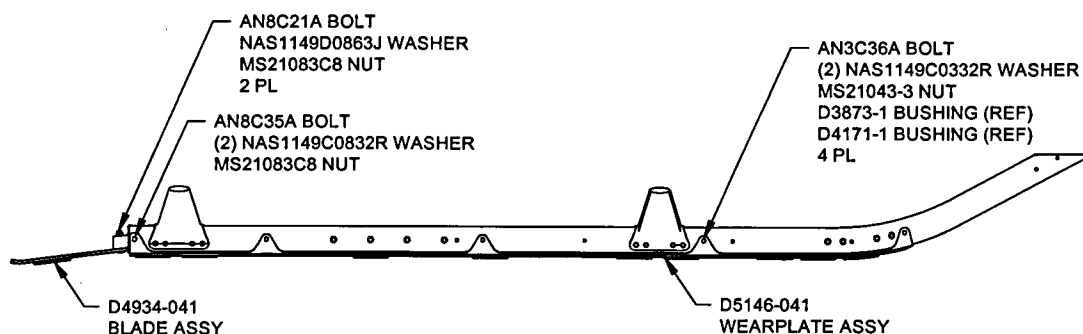


FIGURE 4: D350-636-315/-316/-317/-318 BLADE/WEARPLATE INSTALLATION

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3.0 PARTS LIST

SKIDTUBES WITH GLACIER WEARPLATES

QTY -311	QTY -312	QTY -313	QTY -314	QTY -111	PART NUMBER	DESCRIPTION
X					D350-636-311	SKIDTUBE INSTALLATION, LH, STD AERAZUR/DART CYLINDRICAL FLOAT COMPATIBLE W/ GLACIER WEARPLATES
	X				D350-636-312	SKIDTUBE INSTALLATION, RH, STD AERAZUR/DART CYLINDRICAL FLOAT COMPATIBLE W/ GLACIER WEARPLATES
		X			D350-636-313	SKIDTUBE INSTALLATION, LH AIRCRUISER/DART TRI-BAG FLOAT COMPATIBLE W/ GLACIER WEARPLATES
			X		D350-636-314	SKIDTUBE INSTALLATION, RH AIRCRUISER/DART TRI-BAG FLOAT COMPATIBLE W/ GLACIER WEARPLATES
				X	D350-636-111	GLACIER WEARPLATE KIT
1					D350-636-011	SKIDTUBE INSTALLATION, LH, STD AERAZUR/DART CYLINDRICAL FLOAT COMPATIBLE
	1				D350-636-012	SKIDTUBE INSTALLATION, RH, STD AERAZUR/DART CYLINDRICAL FLOAT COMPATIBLE
		1			D350-636-013	SKIDTUBE INSTALLATION, LH, AIRCRUISER/DART TRI-BAG FLOAT COMPATIBLE
			1		D350-636-014	SKIDTUBE INSTALLATION, RH, AIRCRUISER/DART TRI-BAG FLOAT COMPATIBLE
-1	-1	-1	-1		D2741	BLADE (REMOVED FROM -011/-012/-013/-014)
-3	-3	-3	-3		D3537-1	WEARPAD (REMOVED FROM -011/-012/-013/-014)
-1	-1	-1	-1		D3791-1	WEARPLATE (REMOVED FROM -011/-012/-013/-014)
1	1	1	1	2	D4934-041	BLADE ASSEMBLY (REPLACES D2741)
2	2	2	2	4	D4923-041	WEARPLATE ASSEMBLY (REPLACES D3537-1)
1	1	1	1	2	D4933-041	WEARPLATE ASSEMBLY (REPLACES D3791-1)
				24	AN3C5A	BOLT
				24	NAS1149C0332R	WASHER

SKIDTUBES WITH THRU-BOLT GLACIER WEARPLATES

QTY -315	QTY -316	QTY -317	QTY -318	QTY -113	PART NUMBER	DESCRIPTION
X					D350-636-315	SKIDTUBE INSTALLATION, LH, STD AERAZUR/DART CYLINDRICAL FLOAT COMPATIBLE W/ THRU-BOLT GLACIER WEARPLATE
	X				D350-636-316	SKIDTUBE INSTALLATION, RH, STD AERAZUR/DART CYLINDRICAL FLOAT COMPATIBLE W/ THRU-BOLT GLACIER WEARPLATE
		X			D350-636-317	SKIDTUBE INSTALLATION, LH, AIRCRUISER/DART TRI-BAG FLOAT COMPATIBLE W/ THRU-BOLT GLACIER WEARPLATE
			X		D350-636-318	SKIDTUBE INSTALLATION, RH, AIRCRUISER/DART TRI-BAG FLOAT COMPATIBLE W/ THRU-BOLT GLACIER WEARPLATE
				X	D350-636-113	THRU-BOLT GLACIER WEARPLATE KIT
1					D350-636-015	SKIDTUBE INSTALLATION, LH, STD AERAZUR/DART CYLINDRICAL FLOAT COMPATIBLE W/ TRAINING WEARPLATE
	1				D350-636-016	SKIDTUBE INSTALLATION, RH, STD AERAZUR/DART CYLINDRICAL FLOAT COMPATIBLE W/ TRAINING WEARPLATE
		1			D350-636-017	SKIDTUBE INSTALLATION, LH, AIRCRUISER/DART TRI-BAG FLOAT COMPATIBLE W/ TRAINING WEARPLATE
			1		D350-636-018	SKIDTUBE INSTALLATION, RH, AIRCRUISER/DART TRI-BAG FLOAT COMPATIBLE W/ TRAINING WEARPLATE
-1	-1	-1	-1		D2741	BLADE (REMOVED FROM -015/-016/-017/-018)
-1	-1	-1	-1		D4154-041	WEARPLATE ASSEMBLY (REMOVED FROM -015/-016/-017/-018)
1	1	1	1	2	D4934-041	BLADE ASSEMBLY (REPLACES D2741)
1	1	1	1	2	D5146-041	WEARPLATE ASSEMBLY (REPLACES D4154-041)
				8	AN3C36A	BOLT
				8	MS21043-3	NUT
				16	NAS1149C0332R	WASHER

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4.0 WEIGHT AND BALANCE

The following Weight and Balance information is for the Dart Skidtubes. The Weight and Balance of parts removed from the aircraft are the responsibility of the installer.

Installation	Weight	LONGITUDINAL		LATERAL (STD GEAR)		LATERAL (HIGH GEAR)	
		Arm	Moment	Arm	Moment	Arm	Moment
D350-636-311	32.0 lb	128.6 in	4115 in-lb	-39.3 in	- 1258 in-lb	-41.3 in	- 1322 in-lb
	14.6 kg	3.27 m	47.7 m-kg	-1.00 m	- 14.6 m-kg	-1.05 m	- 15.3 m-kg
D350-636-312	32.0 lb	128.6 in	4115 in-lb	+39.3 in	+ 1258 in-lb	+41.3 in	+ 1322 in-lb
	14.6 kg	3.27 m	47.7 m-kg	+1.00 m	+ 14.6 m-kg	+1.05 m	+ 15.3 m-kg
D350-636-313	32.0 lb	128.6 in	4115 in-lb	-39.3 in	- 1258 in-lb	-41.3 in	- 1322 in-lb
	14.6 kg	3.27 m	47.7 m-kg	-1.00 m	- 14.6 m-kg	-1.05 m	- 15.3 m-kg
D350-636-314	32.0 lb	128.6 in	4115 in-lb	+39.3 in	+ 1258 in-lb	+41.3 in	+ 1322 in-lb
	14.6 kg	3.27 m	47.7 m-kg	+1.00 m	+ 14.6 m-kg	+1.05 m	+ 15.3 m-kg
D350-636-315	34.5 lb	124.1 in	4281 in-lb	-39.3 in	- 1356 in-lb	-41.3 in	- 1425 in-lb
	15.6 kg	3.15 m	49.1 m-kg	-1.00 m	- 15.6 m-kg	-1.05 m	- 16.4 m-kg
D350-636-316	34.5 lb	124.1 in	4281 in-lb	+39.3 in	+ 1356 in-lb	+41.3 in	+ 1425 in-lb
	15.6 kg	3.15 m	49.1 m-kg	+1.00 m	+ 15.6 m-kg	+1.05 m	+ 16.4 m-kg
D350-636-317	34.5 lb	124.1 in	4281 in-lb	-39.3 in	- 1356 in-lb	-41.3 in	- 1425 in-lb
	15.6 kg	3.15 m	49.1 m-kg	-1.00 m	- 15.6 m-kg	-1.05 m	- 16.4 m-kg
D350-636-318	34.5 lb	124.1 in	4281 in-lb	+39.3 in	+ 1356 in-lb	+41.3 in	+ 1425 in-lb
	15.6 kg	3.15 m	49.1 m-kg	+1.00 m	+ 15.6 m-kg	+1.05 m	+ 16.4 m-kg

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